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FLORA OF SOUTHERN AND LOWER CALIFORNIA

A CHECKLIST OF THE FLOWERING PLANTS AND FERNS

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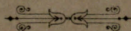
THE LIBRARY
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FLORA
—OF—
Southern and Lower California.



A CHECK-LIST
—OF THE—
FLOWERING PLANTS AND FERNS,

—BY—
CHARLES RUSSELL ORCUTT.



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Lower California Date Palm.

Date Palm of commerce.

Cuttings of the California Grape, (*Vitis Californica*,) for budding.

J. H. ORCUTT,

San Diego, California.

FLORA

—OF—

Southern and Lower California.



PREFACE.

This list includes all the Phænogamous plants and higher Cryptogams known in San Diego county and the adjacent borders of Lower California, and mainly collected by H. C. Orcutt and myself during the last few years. Plants limited in distribution to the northern part of the county are indicated by N; to the southern portion, by S; to Lower California, by L; to N and S, by D; those common to D and L, by G; and to S and L, by F. Saline plants, s; mesas and coast region, c; mountains (above 4,000 feet), m; intermediate hills and valleys, h; desert, d. Introduced or naturalized species are given in italics. Plants blooming during early rains are shown by 1; later rains, 2; summer, 3; fall, 4; throughout the year 5. Species not collected by us are indicated by the *. Color of some is indicated by w for white; r, red; y, yellow; g, green; b, blue or purple. This list has been prepared by reason of many requests of those who appreciate the value of a check-list, and the necessarily incomplete notes will in many cases prove of value, I trust, to the student of our rich and beautiful flora.

CHARLES RUSSELL ORCUTT.

Delphinium scaposum Greene

Antemason Californica

Gemone corymbosa

Hescholtzia ramosa Greene
Mexicana "

Myrica candida

Psaralea Californicum Gray,

Styptigma denticulata Greene

Andromeda flexile "

Clomella

Opidocarpum dubium Dav.
~~Gray~~

Calandrinia

Montia fontana

FLORA OF SOUTHERN AND LOWER CALIFORNIA.

Ranunculaceæ.

- 2109 *Clematis pauciflora*, Nutt. G c
 ligusticifolia, Nutt. G m
Thalictrum polycarpum, Watson. G 5
Myosurus minimus, L. G 2
 aristatus, Benth. D 2
Ranunculus Cymbalaria, Pursh. N
 aquatilis, L., v. *trichophyllus*, Ch. G 2
 1182. *acrespitous*, DC. L m 5
 468 *Californicus*, Benth. Buttercup. G m
 hebecarpus, Hook. & Arn., var. F h
 pusillus, Brewer.

- 426 *Aquilegia truncata*, F. & M. G m
 Delphinium simplex, Dougl. G m
 decorum, F. & M. Blue larkspur. G c
 cardinale, Hook. G m
Paeonia Brownii, Dougl. G h
 **Crossosoma Bigelovii*, Watson. D d
 Californicum, Nutt.

"Berberidaceæ. Barberry.

- Berberis Fremonti*, Torr. L m 3
 pinnata, Lag. S h

navium Papaveraceæ. Poppy.

- 1382 *Platystemon Californicus*, Benth. G
 1383 *Romneya Coulteri*, Harv. F h
 Argemone hispida, Gray. Thistle poppy G
 1384 *Meconopsis heterophylla*, Benth. G
 Dendromecon rigidum, Bth. Tree p. G m
 2254 *Eschscholtzia Californica*, Cham. G
 peninsularis, Greene, new. L
 minutiflora, Watson. G d
 glyptosperma Greenei

Fumariaceæ.

- Dicentra chrysantha*, H. & A. G h
 ochroleuca Engelm.
 Cruciferaæ.

- Alyssum maritimum*, L. Sweet A. G c
Draba cuneifolia, Nutt. D c
Cardamine paucisecta, Bth. Water cress. G m
Arabis perfoliata, Lam. G m
 **longistrostris*, Watson. D d
Streptanthus heterophyllus, Nutt. F c
Caulanthus glandulosus, Hook., var. (?) L m
 laevis, Watson. L m
Thelypodium Wrightii, Gray. D d
*Stanleya * pinnatifida*, Nutt. G
Erysimum asperum, DC. G
Brassica nigra, Koch. Black mustard. G
 alba, Gray. White mustard. G
 campestris, L. Turnip (wild.) G
Sisymbrium canescens, Nutt. L m
 incisum, Engelm. L m
 var. *filipes*, Gray. F c
 reflexum, Nutt. D
 officinale, Scop. N h
Nasturtium officinale, R. Br. G
 curvisiliqua, Nutt., v. *lyratum*, W. L m
Vesicaria Fendleri, Gray, var. G m
Subularia aquatica, L. G c
Tropidocarpum gracile, Hook. L d
Lyrocarpa Palmeri, Watson. S c
Capsella divaricata, Walp. G
 Bursa-pastoris, Mench.

- Lepidium latipes*, Hook. Pepper-grasses: G c
 dictyotum, Gray. G c
 nitidum, Nutt. G c
 Menziesii, DC. G c

- lasiocarpum*, Nutt., var. *tenuipes*, L m
 Watson. G c

- intermedium*, Gray. G h
Thysanocarpus curvipes, Hook. D h
 lacinatus, Nutt. G h
 pusillus, Hook. D d
*Biscutella *Californica*, B. & H. G
Raphanus sativus, L.

Capparidaceæ.

- Cleome integrifolia*, Nutt. S h
Isomeris arborea, Nutt. G

Resedaceæ.

- Oligomeris subulata*, Boiss. G c

Cistaceæ.

- 853 *Helianthemum scoparium*, Nutt. G
 " *Adamsii Greenei*
 Violaceæ.

- Viola aurea*, Kellogg? G m
 chrysantha, Hook. G m
 pedunculata, T. & G. G c h
 lobata, var. *integ.*

Polygalaceæ.

- Polygala Californica*, Nutt. L c
*Krameria *parvifolia*, Benth. G d
 canescens, Gray. G d

Frankeniaceæ.

- Frankenia Palmeri*, Watson. S s 2
 grandifolia, C. & S. G 5

Caryophyllaceæ.

- 399 *Silene Gallica*, L. Catch-fly. G
 1032 *antirrhina*, L. G c
 Californica, Dur. h
 lacinata, Cav. G h
 **Palmeri*, Watson. D m
 platyota, Watson. G m
Cerastium nutans, Raf. G m

- 497 *viscosum*, L. G h
Stellaria media, L. G c
Arenaria alsinoides, Willd. L m
 Douglasii, T. & G. G
 **macradenia*, Watson. D m
 macrophylla, Hook. S m
 1078 *Saponaria Vaccaria*, L. S c
 Lepigonum macrothecum, F. & M. G s
 medium, Fries. G s
 gracile, Watson. S c
 867 *Polycarpon depressum*, Nutt. G c
 Lœdingia squarrosa, Nutt. G h

Illecebraceæ.

- Pentacæna ramosissima*, H. & A. G
 1328 *Achyronychia *Cooperi*, T. & G. D d

Portulacaceæ.

- Portulaca oleracea*, L. Purslane. G c
Calandrinia Menziesii, Hook. F c
 maritima, Nutt. G h
Claytonia perfoliata, Don. G
Calyptridium monandrum, Nutt.

Tamariscineæ. Candlewood.

- Fouquieria splendens*, Engelm. F d

columnaris Kell. Elatinaceæ.

- Elatine brachysperma*, Gray. S c

Hypericaceæ.

- Hypericum Scouleri*, Hook. G m
**anagallodes*, C. & S. N m

Malvaceæ.

- Malva borealis*, Wallm. G
Sidalcea humilis, Gray. G 5
malvæflora, Gray. G
Malvastrum exile, Gray. S c
Thurberi, Gray. G h
**densiflorum*, Watson. D d
**rotundifolium*, Gray. D d
foliosum, Watson, *new*. L
Sphæralcea Emoryi, Torr. G
Sida hederacea, Torr. G
Abutilon crispum, Don. L d
Newberryi, Watson. L d
Streetsii, Watson. L h
aurantiacum, Watson. L h
Hibiscus denudatus, Benth. F d

Sterculiaceæ.

- Ayenia *pusilla*, L. D h
Fremontia Californica, Torr. G h

Linaceæ. Flax.

- Linum perenne*, L. G m

Zygophyllaceæ.

- Fagonia Californica*, Benth. G h
Larrea Mexicana, Moric. N d

Geraniaceæ.

- Geranium Carolinianum*, L. G h
cæspitosum, James. L m
Erodium Texanum, Gray. S c
cicutarium, L'Her. Alfilaria.
moschatum, L'Her. "
macrophyllum, H. & A. G h
*Limnanthes *Douglasii*, R. Br. N m
Oxalis corniculata, L. G c
Wrightii, Gray. L h

Rutaceæ. Spice shrubs.

- Ptelea aptera*, Parry. L h
Thamnosma montanum, Torr. G d
Cneoridium dumosum, Hook. f. G h

Celastraceæ.

- Euonymus occidentalis*, Nutt. N m

" *parishii* Juel

Rhamnaceæ.

- Zizyphus Parryi*, Torr. D d
lycoides, var. *canescens*, Gray. G d
Rhamnus crocea, Nutt. G
Californica, Esch. Wild coffee G m
**var. tomentella*, B. & W. D m
*Condalia *spatulata*, Gray. D d
Adolphia Californica, Watson. G c
Ceanothus cuneatus, Nutt. G c
sorediatus, H. & A. Wild lilac. G h
integerrimus, H. & A. Soap-bush. G h
divaricatus, Nutt. G m
**rigidus*, Nutt. D h

Vitaceæ. Grape.

- Vitis Californica*, Benth. G h

Sapindaceæ.

- Æsculus Parryi*, Gray. Buckeye. L c
Acer macrophyllum, Pursh. N m

Anacardiaceæ. Sumacs.

- Rhus ovata*, Watson, *new*. G m
integrifolia, Nutt. G c
laurina, Nutt. G c
diversiloba, T. & G. Poison oak. G
aromatica, Ait., v. *trilobata*, Gr. D m
var. indivisa, Watson. L m

Leguminosæ. Lupine Family.

- Thermopsis Californica*, Watson. D m
*Hoffmanseggia *stricta*, Benth. D d
**microphylla*, Torr. D d
Lupinus densiflorus, Benth. G
Chamissonis, Esch. S m
affinis, Agardh. G h
micranthus, Dougl. G
sparsiflorus, Benth. G
truncatus, Nutt. G
hirsutissimus, Benth. G c
gracilis, Agardh. G h
Orcuttii, Watson. L m
**Arizonicus*, Watson. D d
brevicaulis, Watson. D d
albicaulis, Dougl. G?
littoralis, Dougl. G?
Douglasii, Agardh. G?
Trifolium Macraei, H. & A. Clovers: G h
ciliatum, Nutt. G h
monanthum, Gray. G
microcephalum, Pursh.
fucatum, Lindl.
gracilentum, T. & G.
involutum, Willd.
tridentatum, Lindl.
var. obtusiflorum, Watson.
Melilotus alba, Lam. Sweet clover. G m
parviflora, Desf. G h
Medicago sativa, L. Alfalfa.
denticulata, Willd. Burr clover.
lupulina, L. G
Psoralea Californica, Watson. G m
orbicularis, Lindl. L m
macrostachya, DC. G h
Amorpha Californica, Nutt. G
Glycyrrhiza lepidota, Pursh. N
Hosackia rigida, Benth. L m
rigida, var. *argyrea*, Watson. L m
oblongifolia, Benth. G
maritima, Nutt. S h
strigosa, Nutt. S h
Purshiana, Benth. G
glabra, Torr. G h
prostrata, Nutt. G h
micrantha, Nutt. G c
argophylla, Gray. G m
Heermannii, D. & H. G h
**crassifolia*, Benth. D h
**grandiflora*, Benth. N m
**brachycarpa*, Benth. D d
**decumbens*, Benth. N
*Dalea *mollis*, Benth. D d
**Emoryi*, Gray. D d
Californica, Watson. N d
**Schottii*, Torr. N d
**spinosa*, Gray. G d
Orcuttii, Watson, *new*. L m
**Parryi*, T. & G. D d
Astragalus oocarpus, Gray. G
didymocarpus, H. & A. G
dispermus, Gray. G

*Vaseyi, Watson.	G d
leucopsis, T. & G. Rattle-weed.	G
*Coulteri, Benth.	D d
Sonora, Gray.	L m
stenophyllus, T. & G.	L m
Orcuttianus, Watson ined.	L d
*tricarinatus, Gray.	D d
Crotalaria, Gray.	D h
*Parishii, Gray.	N m
*Preusii, Gray.	D d
Olneya Tesota, Gray. Iron-wood.	G d
Vicia exigua, Nutt. Vetch.	G c
Cassia Covesii, Gray.	G d
Lathyrus venosus, Muhl.	G c
splendens, Kellogg. Wild pea.	F h
Parkinsonia *Torreyana, Watson.	D d
Prosopis juliflora, DC. Mesquit.	G
pubescens, Benth. Screw bean.	G
Acacia Greggii, Gray.	G

Rosaceæ.

Prunus *Fremonti, Watson.	G d
demissa, Walp. Choke cherry.	D m
ilicifolia, Walp. Oak-leaf cherry.	G
*fasciculata, Gray.	D d
Rubus Nutkanus, Moc.	D m
ursinus, C. & S. Dewberry.	G
Chamaebatia foliolosa, Benth.	G h
Purshia tridentata, DC.	D d
Cercocarpus parvifolius, Nutt.	G h
Fragaria Californica, C. & S. Strawberry.	D m
Potentilla rivalis, Nutt., var. mille-	G m
grana, Watson.	D m
Horkelia Californica, C. & S.	L h
Cal., var. paucifoliata, Watson.	D m
*Bolanderi, Gray, v. Parryi, Wats.	L m
Ivesia Baileyi, Watson.	G m
Adenostoma sparsifolium, Torr.	G
fasciculatum, H. & A. Grease-wood.	G
Rosa Californica, C. & S. Wild rose.	L c
minutifolia, Eng. Parry's rose.	G
Heteromeles arbutifolia, Rœm.	S h
Alchemilla arvensis, Scop.	

Saxifragaceæ.

Saxifraga Parryi, Torr. Wild cocoa nut.	D h
reflexa, Hook.	D h
Tellima Cymbalaria, Walp.	G m
Heuchera rubescens, Torr.	S c
Ribes speciosum, Pursh.	S h
Menziesii, Pursh.	N m
viscosissimum, Pursh.	G
sanguineum, Pursh.	L c
viburnifolium, Gray.	

Crassulaceæ.

Sedum variegatum, Watson.	G
Tillæa minima, Miers.	S c
angustifolia, Nutt.	G
Cotyledon edulis, Brewer.	G
pulverulenta, B. & H.	G h
lanceolata, B. & H.	

Lythraceæ.

Ammannia latifolia, L.	S c
Lythrum Hyssopifolia, L.	S c
alatum, Ph., var. linearifolium, Gr.	G

Onagraceæ.

Epilobium angustifolium, L.	N m
coloratum, Muhl.	G
Zauschneria Californica, Presl.	G

Ludwigia palustris, Ell.	S c
Clarkia elegans, Lindl.	N h
rhomboidea, Dougl.	L m
Gayophytum ramosissimum, T. & G.	G c
Eulobus Californicus, Nutt.	G
(E)nothra Californica, Watson.	D d
*trichocalyx, Nutt.	G m
strigulosa, T. & G.	G s
cheiranthifolia, Horn.	N d
gauræflora, T. & G.	D d
*brevipes, Gray.	D d
*cardiophylla, Torr.	D d
refracta, Watson.	G h
bistorta, Nutt., var. (?) Veitchi-	G h
ana, Hook.	G h
biennis, L.	G h
Godetia epilobioides, Watson. w	G h
tenella, Watson. r	G h
Boisduvalia densiflora, Watson.	G

Loasaceæ.

Petalonyx *Thurberi, Gray.	D d
Mentzelia albicaulis, Dougl.	G m
gracilentia, T. & G.	G h
*lævicaulis, T. & G.	D d
*tricuspis, Gray.	D d
micrantha, T. & G.	L h

Cucurbitaceæ.

Megarrhiza Californica, Torr. Chilocothe	G
Cucurbita perennis, Gray.	G
palmata, Watson. Mock orange.	G
*Californica, Torr.	D d

Datisceæ.

Datisca glomerata, B. & H.	G h
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Cactaceæ. Cacti.

Mamillaria Goodridgii, Scheer.	G c
*phellosperma, Engelm.	D d
Echinocactus viridescens, Nutt.	G c
Orcuttii, Engelm. ined.	L h
cylindraceus, Engelm.	d
Wislizeni, Engelm.	N d
Cereus phoeniceus, var. Pacificus,	L c
Engelm. ined.	L c
maritimus, Jones.	L c
guminosus, Engelm. ined. Pitalla.	G m
Engelmanni, Parry.	G c
Emoryi, Engelm.	G
Opuntia occidentalis, E. Prickly pear.	G h
prolifera, Engelm. Chollas.	G h
serpentina, Engelm.	G d
Bigelovii, Engelm.	

Ficoideæ.

Sesuvium Portulacastrum, L.	G
Mesembrianthemum nodiflorum, L.	s
æquilaterale, Haw. Beach berry.	G s
crystallinum, L. Ice plant.	

Umbelliferæ.

Hydrocotyle prolifera, Kellogg.	G h
ranunculoides, L. f.	S h
Bowlesia lobata, R. & P.	G h
Eryngium petiolatum, Hook.	S c
Deweyana arguta, T. & G.	G m
Carum Gairdneri, B. & H.	N m
(E)nanthe Californica, Watson.	G h
Daucus pusillus, Michx.	G h
Sanicula Menziesii, H. & A.	S h
bipinnatifida, Dougl.	G h

laciniata, H. & A.	G h	*Philadelphicus, L.	N h
<i>Apium graveolens</i> , L.	S	<i>Baccharis Douglasii</i> , DC.	G h
<i>Apiastrum angustifolium</i> , Nutt.	G h	glutinosa, Pers.	G
<i>Selinum *capitellatum</i> , B. & H.	D m	Emoryi, Gray.	G h
<i>Angelica tomentosa</i> , Watson.	G m	sarothroides, Gray.	G h
<i>Caucalis microcarpa</i> , H. & A.	G	<i>Pluchea camphorata</i> , DC.	N h
<i>Peucedanum dasycarpum</i> , T. & G.	G	borealis, Gray. Mock willow.	G
<i>Euryptera</i> , Gray.	D c	<i>Micropus Californicus</i> , F. & M.	G h
Cornaceæ.		<i>Psilocarphus Oreganus</i> , Nutt.	S c
<i>Cornus Californica</i> , C. A. Meyer.	N m	tenellus, Nutt.	S c
<i>Garrya flavescens</i> , var. Palmeri, Wat.	F m	<i>Stylocline gnaphalioides</i> , Nutt.	S c
Caprifoliaceæ.		<i>Evax caulescens</i> , Gray.	D c
<i>Sambucus glauca</i> , Nutt. Elder.		<i>Filago Arizona</i> , Gray.	L m
<i>Symphoricarpus mollis</i> , Nutt.	S m	<i>Gnaphalium Sprengelii</i> , H. & A.	G
racemosus, Michx. Snowdrop.	S m	palustre, Nutt.	G
<i>Lonicera hispidula</i> , Dougl., var. subspicata, Gray.	G	purpureum, L.	G
Rubiaceæ.		<i>Iva Hayesiana</i> , Gray.	G
<i>Kelloggia *galioides</i> , Torr.	D m	<i>Hymenoclea *Salsola</i> , T. & G.	S d
<i>Galium Andrewsii</i> , Gray.	G m	monogyra, T. & G.	G h
Rothrockii, Gray.	L m	<i>Ambrosia pumila</i> , Gray.	G c
angustifolium, Nutt.	G m	psilostachya, DC. Ragweed.	G
stellatum, Kellogg.	L m	<i>Franseria *dumosa</i> , Gray.	S d
pubens, Gray.	G h	Hookeriana, Nutt.	G
<i>Aparine</i> , L., var. <i>Vaillantii</i> , Koch.	G c	bipinnatifida, Nutt.	G s
Valerianaceæ.		deltoidea, Torr.	G c
<i>Valerianella macrocera</i> , Gray.	G h	flexuosa, Gray, new.	L d
Compositæ.		<i>Xanthium strumarium</i> , L. Cocklebur.	
<i>Hofmeisteria *plurisetia</i> , Gray.	D d	<i>Wyethia coriacea</i> , Gray.	G m
<i>Brickellia Californica</i> , Gray.	G	<i>Encelia Californica</i> , Nutt.	G c
frutescens, Gray.	G d	farinosa, Gray.	N h
atractylodes, Gray.	L d	viscida, Gray.	G m
<i>Carphephorus juncus</i> , Benth.	G	*eriocephala, Gray.	D d
<i>Gutierrezia Californica</i> , T. & G.	G m	<i>Helianthus dealbatus</i> , Gray.	L c
Euthamiae, T. & G.	G h	gracilentus, Gray.	F h
<i>Grindelia robusta</i> , Nutt.	G h	Californicus, DC.	F
<i>Pentachæta aurea</i> , Nutt.	G	petiolaris, Nutt.	G
<i>Eremiastrum *bellioides</i> , Gray.	D d	<i>Viguiera laciniata</i> , Gray.	G
<i>Lessingia glandulosa</i> , Gray.	S h	Parishii, Greene.	L m
<i>Monoptilon *bellidiforme</i> , T. & G.	D d	<i>Leptosyne Douglasii</i> , DC.	G c
<i>Heterotheca grandiflora</i> , Nutt.	G	maritima, Gray.	G s
<i>Chrysopsis villosa</i> , Nutt., var. sessiliflora, Gray.	G	*Bigelevii, Gray.	D d
<i>Aplopappus squarrosus</i> , H. & A.	G h	<i>Bidens chrysanthemoides</i> , Michx.	G? m
linearifolius, DC.	G m	pilosa, L.	L
Palmeri, Gray.	G h	<i>Madia elegans</i> , Don.	G h
<i>Berberidis</i> , Gray.	L c	filipes, Gray.	G h
Orcuttii, Gray, new.	L	*glomerata, Hook.	D h
<i>Bigelevia Menziesii</i> , Gray.	G	<i>Hemizonia *paniculata</i> , Gray.	D m
spatulata, Gray.	G m	fasciculata, T. & G.	G h
brachylepis, Gray.	L m	tenella, Gray.	G h
graveolens, Gray.	G m	Wrightii, Gray.	L
teretifolia, Gray.	D d	floribunda, Gray.	G
*paniculata, Gray.	D d	<i>Layia glandulosa</i> , H. & A.	G m
<i>Solidago Californica</i> , Nutt.	G h	elegans, T. & G.	G c
*confinis, Gray.	S h	*platyglossa, Gray.	N h
<i>Corethrogyne flaginifolia</i> , Nutt.	G	<i>Jaumea carnosa</i> , Gray.	G s
<i>Aster Andersoni</i> , Gray.	D m	<i>Baeria *Clevelandi</i> , Gray.	S c?
exilis, L.	G m	gracilis, Gray.	G
spinosus, Benth.	G	var. tenerrimus, Gray.	S h
*parviflorus, Gray.	D d	mutica, Gray.	G s
<i>Erigeron incompertus</i> , Gray, new.	L h	<i>Eriophyllum Wallacei</i> , Gray.	G m
foliosus, Nutt.	S	confertiflorum, Gray.	G
var. tenuissimus, Gray.	S h	*ambiguum, Gray.	D d
var. stenophyllus, Gray.	L m	<i>Lasthenia glabrata</i> , Lindl.	G
<i>Canadensis</i> , L.	G	<i>Baileya pauciradiata</i> , H. & G.	D d
		multiradiata, H. & G.	L
		<i>Burrielia *microglossa</i> , DC.	D d
		<i>Amblyopappus pusillus</i> , H. & A.	G
		<i>Hulsea Californica</i> , T. & G.	G m
		*vestita, Gray.	D m
		<i>Palafoxia *linearis</i> , Lag.	D d

<i>Chænactis</i> *carphoclinia, Gray.	D d	<i>specularioides</i> , Nutt.	S h
<i>artemisiaefolia</i> , Gray.	G h	<i>Specularia biflora</i> , Gray.	G h
<i>tenuifolia</i> , Nutt.	G	*perfoliata, A. DC.	D h
<i>Parishii</i> , Gray, <i>new</i> .	G m	Ericaceæ.	
*Fremonti, Gray.	D d	<i>Arctostaphylos glauca</i> , Lindl.	G m
*suffrutescens, Gray.	D d	<i>tomentosa</i> , Dougl.	G m
<i>Helenium puberulum</i> , DC.	G m	<i>bicolor</i> , Gray.	G h
*Bigelovii, Gray.	S m	<i>pungens</i> , HBK. Manzanita.	G m
<i>Hymenopappus filifolius</i> , Hook.	G m	<i>oppositifolia</i> , Parry.	L h
<i>Hymenothrix Wrightii</i> , Gray.	L m	<i>arguta</i> , Zucc., var. <i>diversifolia</i> , Parry.	G h
<i>Syntrichopappus Fremonti</i> , Gray.	D d	<i>Rhododendron occidentale</i> , Gray.	D m
<i>Dysodia</i> *Cooperi, Gray.	D d	<i>Pyrola aphylla</i> , Smith.	D m
<i>porophylloides</i> , Gray.	G d	<i>Pterospora</i> *andromedeæ, Nutt.	N m
<i>Trichoptilium</i> *incisum, Gray.	D d	Plumbaginaceæ.	
<i>Perityle microglossa</i> , Benth.	G h	<i>Statice Limonium</i> , L. Marsh rosemary.	G s
<i>Californica</i> , Bth., var. <i>nuda</i> , Gr.	L d	Lennoaceæ.	
<i>Porophyllum gracile</i> , Benth.	G	<i>Pholisma arenarium</i> , Nutt.	G
<i>Achillea Millefolium</i> , L.	G	Primulaceæ.	
<i>Anthemis Cotula</i> , L. May weed.	G	<i>Dodecatheon Meadia</i> , L.	G
<i>Artemisia tridentata</i> , Nutt.	G	<i>Anagallis arvensis</i> , L. Barometer.	G
<i>Californica</i> , Less. Southernwood.		<i>Samolus Valerandi</i> , L., var. <i>Amer'a</i> , Gr.	G
<i>Ludoviciana</i> , Nutt.	G h	<i>Centunculus minimus</i> , L.	S c
<i>dracunculoides</i> , Pursh.	G h	Styracaceæ.	
<i>Cotula coronopifolia</i> , L.	G	<i>Styrax Californica</i> , Torr.	N h
<i>Soliva sessilis</i> , R. & P.	S c	Oleaceæ.	
<i>Tetradymia comosa</i> , Gray.	G m	<i>Menodora scabra</i> , Gray.	G d
<i>Peucephyllum</i> *Schottii, Gray.	D d	<i>scoparia</i> , Engelm.	G m
<i>Psathyrotes ramosissima</i> , Gray.	D d	<i>Fraxinus dipetala</i> , H. & A. Flow'g ash.	L h
<i>Senecio sylvaticus</i> , L.	G c	Apocynaceæ. Indian Hemp.	
<i>Douglasii</i> , DC.	G h	<i>Apocynum cannabinum</i> , L.	G
<i>Californicus</i> , DC.	G h	Asclepiadaceæ. Milkweeds.	
<i>Oniscus occidentalis</i> , Gray. Thistle.	G c	<i>Asclepias subulata</i> , Decsne. Jumete.	L h
<i>Californicus</i> , Gray.	G	<i>eriocarpa</i> , Benth.	G m
<i>Drummondii</i> , v. <i>acaulescens</i> , Gr.	L m	<i>erosa</i> , Torr.	L m
<i>Silybum Marianum</i> , Gærtn.	G	<i>Mexicana</i> , Cav.	G h 5
<i>Centaurea solstitialis</i> , L.	G	<i>Gomphocarpus</i> *tomentosus, Gray.	S h
<i>Perezia microcephala</i> , Gray.	G h	<i>Philibertia Torreyi</i> , Gray.	G h 5
<i>Trixis angustifolia</i> , DC. var. <i>latiuscula</i> , Gray.	D d	Gentianaceæ.	
<i>Microseris elegans</i> , Greene.	S c	<i>Erythraea venusta</i> , Gray.	G h 2
<i>platycarpa</i> , Gray.	G h	*Douglasii, Gray.	D h
<i>Lindleyi</i> , Gray.	G h	<i>floribunda</i> , Benth.	G m
<i>linearifolia</i> , Gray.	G	<i>Frasera Parryi</i> , Torr.	N m 3
<i>Stephanomeria virgata</i> , Benth.	G	<i>Eustoma exaltatum</i> , Griseb.	L d
<i>Rafinesquia Californica</i> , Nutt.	G c	Polemoniaceæ.	
*Neo-Mexicana, Gray.	D d	<i>Phlox longifolia</i> , Nutt., var. <i>Stansburyi</i> , Gray.	L m
<i>Anisocoma acaule</i> , T. & G.	G m	<i>nana</i> , Nutt.	L m
<i>Calycoseris</i> *Parryi, Gray.	D d	<i>Gilia Sessel</i> , Don.	G m
<i>Malacothrix Coulteri</i> , Gray.	G h	<i>divaricata</i> , Nutt.	G h
<i>Californica</i> , DC.	G h	<i>Lemmonii</i> , Gray.	G m
<i>glabrata</i> , Gray.	L m	<i>liniflora</i> , Benth.	G m
<i>Clevelandii</i> , Gray.	F m	var. <i>pharnaceoides</i> , Gray.	G h
<i>Atrichoseris</i> *platyphylla, Gray.	D d	<i>dianthoides</i> , Endl.	c
<i>Troximon retrorsum</i> , Gray.	G m	<i>Orcuttii</i> , Parry.	L h
<i>heterophyllum</i> , Greene.	L m	<i>bella</i> , Gray, <i>new</i> .	L m
*grandiflorum, Gray.	D m	<i>micantha</i> , Steud.	G
<i>Lygodesmia exigua</i> , Gray.	G m	<i>floribunda</i> , Gray.	G m
<i>Sonchus oleraceus</i> , L.	G	<i>atractylodes</i> , Steud.	G
<i>asper</i> , Vill.	G	*Bigelovii, Gray.	D d
<i>tenerrimus</i> , L.	S c	*ciliata, Benth.	D d
Lobeliaceæ.		*Californica, Benth.	D m
<i>Nemacladus longiflorus</i> , Gray.	G m		
<i>ramosissimus</i> , Nutt.	G h		
<i>Lobelia splendens</i> , Willd.	G m		
<i>Palmerella debilis</i> , Gray.	L d		
<i>Downingia pulchella</i> , Torr.	S c		
Campanulaceæ.			
<i>Githopsis</i> *diffusa, Gray.	N h		

densifolia, Benth.	D m
var. elongata, Gray.	G m
floccosa, Gray.	G
achilleæfolia, Benth.	G
multicaulis, Benth.	G h
*setosissima, Gray.	D d
tenuiflora, Benth.	G h
inconspicua, Dougl.	F h
*latifolia, Watson.	D d
prostrata, Gray.	L m
Laeselia effusa, Gray.	F m
tenuifolia, Gray.	F m
guttata, Gray, <i>new</i> .	L

Hydrophyllaceæ.

Nemophila aurita, Lindl.	b	S c
racemosa, Nutt.	w	G
Menziesii, H. & A.	Blue eyes.	G
insignis, Dougl.		N h
Ellisia membranacea, Benth.		G
chrysanthemifolia, Benth.		G
Phacelia Parryi, Torr.		G c
circinata, Jacq. f.		G h
tanacetifolia, Benth.		G
ramosissima, Dougl.		G
hispidula, Gray.		G
*curvipes, Torr.		D d
*micrantha, Torr.		D d
Fremontii, Torr.		G m
Orcuttiana, Gray.		F h
Phacelia grandiflora, Gray.		S c
Whitlavia, Gray.		N h
*campanularia, Gray.		N d
plumosa, Kellogg, <i>new</i> .		L c
suffrutescens, Parry.		N h
Emmenanthe penduliflora, Benth.		G
Tricardia *Watsoni, Torr.		D d
Nama demissum, Gray.		N d
Parryi, Gray.		N m
Eriodictyon tomentosum, Benth.		S h
glutinosum, Bth. Yerba santa.		G? m
angustifolium, Nutt.		F?

Borraginaceæ.

Coldenia *Palmeri, Gray.		D d
*canescens, DC.		D d
Heliotropium Curassavicum, L.		G
Amsinckia spectabilis, F. & M.		F c
*intermedia, F. & M.		N m
tessellata, Gray.		L m
Echidiocarya Californica, Gray.		L m
Eritrichium micranthum, Torr.		G d
racemosum, Watson.		F d
barbigerum, Gray.		G
intermedium, Gray.		S c
circumscissum, Gray.		D h
muriculatum, A. DC.		S c
angustifolium, Torr.		G
setosum, Greene, <i>new</i> .		S c
Californicum, DC., var. subgloch-		
idiatum, Gray.		G c
*pterocaryum, Torr.		D d
Echinosperrum Greenei, Gray.		S c
Pectocarya setosa, Gray.		G d
linearis, DC.		G
*penicillata, A. DC.		D d
Harpagonella Palmeri, Gray.		G c

Convolvulaceæ.

Convolvulus Soldanella, L.		G s
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Californica, Choisy.		S h
occidentalis, Gray.		S h
pentapetaloides, L.		F h
longipes, Watson, var.		L h
Cressa Cretica, L.		G s
Cuscuta Californica, Choisy. Dodders:		G
salina, Engelm.		S s
subinclusa, D. & H.		S m
Dichondra repens, Forst.		F c

Solanaceæ.

Solanum nigrum, L.	w	G
Xanti, Gray.	b	G
Physalis crassifolia, Benth.		L h
pubescens, L.		F h
Lycium Californicum, Nutt.		G s
Andersonii, var. Wrightii, Gray.		G h
Datura meteloides, DC.		G
Petunia parviflora, Juss.		G
Nicotiana Bigelovii, Wats.		G
Clevelandi, Gray.		S c
glauca, Graham.	Tobacco tree.	
attenuata, Torr.	Wild tobacco.	

Scrophulariaceæ.

Linaria Canadensis, Dum.	Toad-flax.	G
Antirrhinum filipes, Gray.		S
Orcuttianum, Gray.	b w	F
subsessile, Gray.		F c
Nuttallianum, Benth.		F c
Mohavea *viscida, Gray.		D d
Scrophularia Californica, Cham.	Figwort.	
Collinsia bicolor, Benth.		F h 2
bartsiaefolia, Benth.		G m
Pentstemon cordifolius, Benth.	r	G h
ternatus, Torr.	r	F h
antirrhinoides, Benth.	y	G h
*Rothrockii, Gray.		D m
Palmeri, Gray.	w	L d
spectabilis, Thurb.		G h
Clevelandi, Gray.	r	F m
*Parryi, Gray.		D d
heterophyllus, Lindl.		N m
pumilus, Nutt., var. incanus, Gr.		L m
*ambiguus, Torr.		D d
Pedicularis *densiflora, Benth.		D h
*semibarbata, Gray.		N m
Mimulus nanus, H. & A.		D m
Fremonti, Gray.	r	F h
brevipes, Benth.	y	G
glutinosus, Wendl.	r	G h
var. puniceus, Gray.		S c
cardinalis, Dougl.	r	G
luteus, L.	y	G
Palmeri, Gray.	r	F m
pilosus, Watson.	y	G
exiguus, Gray, <i>new</i> .		L m 4
moschatus, Dougl.	y Musk.	S m
floribundus, Dougl.		G
inconspicuus, Gray.		G
Stemodia durantifolia, Swartz.		G h
Limosella aquatica, L.		G m
Veronica *alpina, L.		D m
peregrina, L.		G
Castilleja affinis, H. & A.		G
*linearifolia, Benth.		D d
foliolosa, H. & A. Painted feather.		G
*miniata, Dougl.		N m
Orthocarpus Parishii, Gray.		S c
purpurascens, Benth.		G

<i>attenuatus</i> , Gray.	L m
* <i>hispidus</i> , Benth.	D h
<i>Cordylanthus filifolius</i> , Nutt.	G
<i>Nevinii</i> , Gray.	G m
<i>Orcuttianus</i> , Gray.	L h
<i>maritimus</i> , Nutt.	S s

Orobanchaceæ.

<i>Aphyllon fasciculatum</i> , Gray.	
<i>Californicum</i> , Gray.	
<i>Ludovicianum</i> , Gray.	
<i>comosum</i> , Gray.	

Bignoniaceæ.

<i>Chilopsis saligna</i> , Don.	S d
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Acanthaceæ.

<i>Beloperone Californica</i> , Benth.	G c
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Labiataæ. *Mint Family.*

<i>Hyptis Emoryi</i> , Torr.	G d
<i>Mentha Canadensis</i> , L.	G m
<i>Pycnanthemum Californicum</i> , Torr.	G
<i>Monardella macrantha</i> , Gray.	D m
<i>nana</i> , Gray.	G m
* <i>odoratissima</i> , Benth.	S m
<i>lanceolata</i> , Gray.	G m
<i>villosa</i> , Benth., var.	L m
<i>linoides</i> , Gray.	G
<i>Acanthomintha ilicifolia</i> , Gray.	F h
<i>Pogogyne nudiuscula</i> , Gray.	S c
<i>Salvia carduacea</i> , Benth. Thistle-sage.	
<i>Columbariæ</i> , Benth.	G
<i>Audibertia incana</i> , Benth. Sage.	G m
<i>stachyoides</i> , Benth. w	G h
<i>Clevelandi</i> , Gray. b	S h
<i>polystachya</i> , Benth. White sage.	G
<i>Marrubium vulgare</i> , L. Hoarhound.	
<i>Stachys bullata</i> , Benth.	G
<i>Trichostema lanatum</i> , Benth.	G
<i>lanceolatum</i> , Benth.	D
<i>Parishii</i> , Vasey. Romero.	G h
<i>Scutellaria Bolanderi</i> , Gray.	S m
<i>angustifolia</i> , Pursh.	S m
* <i>tuberosa</i> , Benth.	S h
<i>Brunella vulgaris</i> , L.	S m

Verbenaceæ.

<i>Verbena officinalis</i> , L.	G c
<i>prostrata</i> , R. Br.	G
<i>ciliata</i> , Benth.	L m
<i>littoralis</i> , HBK.	L m

Plantaginaceæ. *Plantain.*

<i>Plantago major</i> , L.	G
<i>Patagonica</i> , Jacq.	G c
<i>hirtella</i> , HBK.	S h

Nyctaginaceæ.

<i>Mirabilis Californica</i> , Gray.	G 5
<i>multiflora</i> , Gray.	G m
<i>Abronia umbellata</i> , Lam.	G s
<i>maritima</i> , Nutt.	S s
<i>villosa</i> , Watson.	d
* <i>turbinata</i> , Torr.	D d
<i>Boerhaavia viscosa</i> , Gray.	L

Polygonaceæ.

<i>Rumex salicifolius</i> , Wein.	G
<i>hymenosepalus</i> , Torr. Canaigre.	
<i>Polygonum nodosum</i> , Pers.	S

<i>aviculare</i> , L.	S
* <i>Bistorta</i> , L.	D m
<i>Hartwrightii</i> , Gray.	L m
* <i>amphibium</i> , L.	D m
* <i>tenue</i> , Michx.	D m
<i>Nemacaulis Nuttallii</i> , Benth.	F c
<i>Eriogonum Thurberi</i> , Torr.	F 2
<i>angulosum</i> , Benth.	F
<i>foliosum</i> , Watson.	L m 3
<i>fasciculatum</i> , Benth.	G 5
<i>Wrightii</i> , Torr.	G 5
<i>Baileyi</i> , Watson.	L m
<i>gracile</i> , Benth.	S m
<i>Orcuttianum</i> , Watson.	L d 3
<i>trichopodium</i> , Torr.	L d
<i>Parishii</i> , Watson.	G m 4
* <i>Palmeri</i> , Watson.	S m
<i>vimineum</i> , Dougl.	G
* <i>apiculatum</i> , Watson.	D m
<i>elongatum</i> , Benth.	S h
* <i>saxatile</i> , Watson.	S m
<i>parvifolium</i> , Smith.	N c
<i>nudum</i> , Dougl.	D m
* <i>Parryi</i> , Gray.	D d
* <i>Plumatella</i> , D. & H.	D d
* <i>crenulatum</i> , Parry.	D h
* <i>Thomasii</i> , Torr.	D d
* <i>reniforme</i> , Torr.	D d
<i>Oxytheca trilobata</i> , Gray.	S h
<i>perfoliata</i> , T. & G.	D d
<i>Chorizanthe polygonoides</i> , T. & G.	S c
* <i>corrugata</i> , T. & G.	D d
* <i>Watsoni</i> , T. & G.	D d
<i>Orcuttiana</i> , Parryi, <i>new</i> .	S c 2
<i>Californica</i> , Gray.	S c 2
<i>fimbriata</i> , Nutt.	G h 2
<i>laciniata</i> , Torr.	F m
<i>staticoides</i> , Benth.	N h
<i>procumbens</i> , Nutt.	F h
<i>Parryi</i> , Watson.	G m
* <i>brevicornu</i> , Torr.	D d
<i>Lastarriæ</i> , Parry.	G
<i>Pterostegia drymarioides</i> , F. & M.	G

Amarantaceæ. (*Weeds, &c.*)

<i>Amarantus albus</i> , L.	
<i>Californicus</i> , Watson.	G
* <i>fimbriatus</i> , Benth.	D m
* <i>Palmeri</i> , Watson.	D d
<i>Nitrophila occidentalis</i> , Watson.	G s
<i>Cladanthrix lanuginosa</i> , Nutt.	D d

Chenopodiaceæ. (*Weeds, &c.*)

<i>Aphanisma blitoides</i> , Nutt.	G c
<i>Chenopodium album</i> , L.	G
<i>ambrosioides</i> , L.	D
<i>Californicum</i> , Watson.	G
<i>murale</i> , L.	G
<i>Fremontii</i> , Watson.	L d
<i>Monolepis chenopodioides</i> , Moq.	G
<i>spathulata</i> , Gray.	L m
<i>Atriplex microcarpa</i> , Dietr.	G
<i>bracteosa</i> , Watson.	S
<i>Coulteri</i> , Dietr.	G?
<i>expansa</i> , Watson.	G?
<i>hymenelytra</i> , Watson.	G
<i>canescens</i> , James.	G
<i>Eurotia lanata</i> , Moq.	D d
<i>Grayia polygaloides</i> , H. & A.	D d
<i>Salicornia ambigua</i> , Mx.	G s

Suæda Torreyana, Watson.	G s
Batideæ.	
Batis maritima, L.	G s
Lauraceæ. Laurel.	
Umbellularia Californica, Nutt.	N m
Urticaceæ. Nettles.	
Urtica holosericea, Nutt. False nettle.	G h
urens, L.	G
Hesperocnide tenella, Torr.	F h
Parietaria debilis, Forst.	F h
Platanaceæ. Sycamore.	
Platanus racemosus, Nutt.	G
Euphorbiaceæ.	
Simmondsia Californica, Nutt.	G
Euphorbia polycarpa, Benth.	G
hirtula, Engelm.	G h
miseria, Benth.	G c
dictyosperma, F. & M.	F m
Palmeri, Engelm.	F m
*eriantha, Benth.	D d
Eremocarpus setigerus, Benth.	G
Acalypha Californica, Benth.	G h
Croton tenuis, Watson.	D m
Californicus, Muhl.	G
Bernardia *myricæfolia, Watson.	D d
Stillingia linearifolia, Watson.	G
*annua, Muhl.	D d
Argythamnia *serrata, Muhl.	D d
sericophylla, Gray.	G d
Callitrichaceæ.	
Callitriche *verna, L.	N m
marginata, Torr.	S c
Piperaceæ. Yerba manse.	
Houttuynia Californica, B. & H.	G
Ceratophyllaceæ.	
Ceratophyllum demersum, L.	G m
Betulaceæ. Birch Family.	
Alnus oblongifolia, Nutt. Alder.	S
Salicaceæ. Willow.	
Salix lasiolepis, Benth.	G
longifolia, Muhl.	G d
lævigata, Bebb.	S h
Populus trichocarpa, T. & G.	N m
Fremonti, var. Wislizeni, Wats.	Cot-
tonwood.	
Juglandaceæ. Walnut.	
Juglans Californica, Watson.	N m
Cupuliferæ. Oak.	
Quercus pungens, Engelm.	L m
dumosa, Nutt. Shrub oak.	G
oblongifolia, Torr. White oak.	G h
crysolepis, Liebm.	F m
Palmeri, Engelm.	F m
agrifolia, Nee. Cal. live oak.	G
Kelloggii, Newberry.	D m
Emoryi, Torr.	L m
Castanopsis chrysophylla, A. DC.	N m
Loranthaceæ. Mistletoe.	
Arceuthobium occidentale, Engelm.	

Douglasii, Engelm. Pine mistletoe.	
Phoradendron flavescens, Nutt. var. macrophyllum, Engelm.	
var. villosum, Engelm.	
Bolleianum, Eichl.	
Californicum, Nutt.	
juniperinum, Engelm.	
var. Libocedri, Engelm.	

Gnetaceæ.

Ephedra Californica, Watson.	G
*oxycarpa, Engelm.	D d

Coniferæ. Pine Family.

Juniperus Californicus, Carr. Juniper.	G m
Cupressus Guadalupensis, Watson.	
Cypress.	G h
Libocedrus decurrens, Torr. Cedar.	G m
Abies concolor, Lindl. Balsam.	D m
Pinus Lambertiana, Dougl. Sugar pine.	D
monophylla, T. & F. Pinone.	G d
Parryana, Engelm. Pinone.	F m
Torreyana, Parry. Soledad pine.	S c
ponderosa, Dougl.	D m
Jeffreyi, Murr. Yellow pine.	G m
Coulteri, Don.	G m
Pseudotsuga Douglasii, Carr., var. macrocarpa, Engelm.	N m

Orchidaceæ. Orchid Family.

Epipactis gigantea, Dougl.	G h
Habenaria Cooperi, Watson.	S c
*leucostachys, Watson.	D m

Iridaceæ. Iris Family.

Sisyrinchium bellum, Watson. Blue grass.	G c
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Amaryllidaceæ. Century plants.

Agave deserti, Engelm. Mescal.	G d
Pringlei, Engelm. ined.	L m
Shawii, Engelm.	G c

Liliaceæ. Lily Family.

Allium unifolium, Kellogg.	G h 2
*attenuifolium, Kellogg.	D h
serratum, Watson.	S h
*lacunosum, Watson. Onions.	D h
*parvum, Kellogg.	D m
hæmatochiton, Watson.	G 2
fimbriatum, Watson.	L m 3
Muilla maritima, Watson.	G c
Bloomeria aurea, Kellogg.	G h 2
Clevelandi, Watson. new.	S c 2
Brodiaea minor, Watson.	G h
capitata, Benth.	G 2
Orcuttii, Greene. new.	S c 2
Chlorogalum parviflorum, Watson.	G h
Smilacina sessilifolia, Nutt.	S m
Nolina Palmeri, Watson. Sotole.	L m
*Parryi, Watson.	D d
Bigelovii, Watson.	L d
Yucca baccata, Torr. Ciote.	G
Whipplei, Torr.	G h
Lillum Parryi, Watson. Parry's lily.	D m
Humboldtii, R. & L. Tiger lily.	D m
*Washingtonianum, Kellogg.	D m
Calochortus *albus, Dougl.	D h
Weedii, Wood. Butterfly tulip.	F h
luteus, Dougl.	F m
venustus, Benth.	G h

Palmeri, Watson.	L m	speciosa, T. & R.	
Veratrum Californicum, Dur.	D m	eminens, Cav.	
Zygadenus *venenosus, Watson.	D m	Parishii, Vasey.	
Fremonti, Torr.	D	coronata, Thurb.	
Typhaceæ.		Muhlenbergia debilis, Trin.	
Typha latifolia, L.	G	*pungens, Thurb.	D
Lemnaceæ.		Sporobolus asperifolius, Thurb.	
Lemna trisulca, L.		airoides, Torr.	
Valdiviana, Phil.		ramulosus, Kunth.	
minor, L.		Epicampes rigens, Benth.	
Naiadaceæ.		Avena <i>fatua</i> , L. (et var.)	Oat. G
Triglochin maritimum, L.	S s	Deschampsia gracilis, Vasey, <i>new</i> .	S c
Potamogeton natans, L.	L m	Paspalum distichum, L.	G h
pusillus, L.		Panicum *Urvilleanum, Kunth.	D d
lucens, L.		capillare, L.	
Najas major, Allione.	L m	dichotomum, L.	D
Lilæa subulata, HBK.	S h	Alopecurus geniculatus, L.	D
Zannichellia *palustris, L.		Agrostis Scouleri, Trin.?	
Ruppia *maritima, L.		exarata, Trin. (et var.)	
Alismaceæ.		verticillata, Vill.	
Echinodorus rostratus, Engelm.	S c	virescens, HBK.	
Juncaceæ.		microphylla, Steud. (et var.)	
Juncus robustus, Watson.	G	scabra, Willd., var.?	
Balticus, Deth.	G	grandis, Trin.?	
bufonius, L.	G	asperifolia, Trin.?	
*longistylis, Torr.	D h	Cinna *macroura, Kunth.	D d
dubius, Engelm.	G	Eriocoma cuspidata, Nutt.	
Juncus xiphioides, Mey.	G h	Spartina stricta, Roth.	S s
oxymeris, Engelm.	G	Cynodon Dactylon, Pers.	
Palmeæ. <i>Palms.</i>		Bouteloua racemosa, Lag.	L m
Washingtonia filifera, Wendl. California		Trisetum barbatum, Steud.	
fan palm.	G	Lamarkia aurea, Mönch.	G
Erythea edulis, Watson. Guadalupe Isl-		Phragmites communis, Trin.	G
and palm.		Tricuspis *pulchella, Torr.	D d
armata, Watson. Blue palm.	L d	Dactylis glomerata, L.	G
Cyperaceæ. <i>Sedges.</i>		Koeleria cristata, Pers.	F c
Cyperus lævigatus, L.	G	Melica imperfecta, Trin.	G
aristatus, Rottb.		poëoides, Torr.	
Michauxianns, Schult.		Distichlis maritima, Raf.	G
occidentalis, Torr.		Poa tenuifolia, Nutt., (varieties.)	
Scirpus setaceus, L.	G	Festuca <i>Myurus</i> , L.	G
lacustris, L.		tenella, Willd.	D
Olneyi, Gray.		microstachys, Nutt.	D
sylvaticus, L., var. digynus, Borek.		var. divergens.	
*pungens, Vahl.	D h	var. ciliata.	
Hemicarpha subsquarrosa, Nees.		Bromus maximus, Desf.	
Eleocharis acicularis, R. Br.		erectus, Huds.	
palustris, R. Br.		carinatus, H. & A.	
capitata, R. Br.	G	unioloides, Willd.	D
arenicola, Torr.		Lolium temulentum, L.	G
Carex triquetra, Boott.	G c	Agropyrum repens, L.	
siccata, Dewey, var. minor.	L m	tenerum, Vasey.	
Gramineæ. <i>Grasses.</i>		glaucum, R. & S.	
Polypogon Monspeliensis, Desf.	F	Hordeum jubatum, L.	G
Hilaria rigida, Thurb.	G d	*murinum, L.	D
Andropogon saccharoides, Swartz.		nodosum, L.	
dissitiflorus, Michx.		Elymus condensatus, Presl.	D
Phalaris <i>Cunariensis</i> , L.		var. triticoides, Thurb.	D
intermedia, Bosc.		Orcuttianus, Vasey, <i>new</i> .	S
var. angusta, Chapm.		Sitanion, Schult.	D
Aristida bromoides, HBK.		Eragrostis poëoides, Beauv., var. mega-	
purpurea, Nutt., var.		stachya, Gray.	
Orcuttiana, Vasey, <i>new</i> .	L m	oxylepis, Torr.	
Stipa setigera, Presl.		Imperata brevifolia, Vasey.	L d
		Equisetaceæ.	
		Equisetum robustum, Al. Br.	Horse-tail G
		rush.	
		Ophioglossaceæ.	
		Ophioglossum nudicaule, L. f.	G c

Filices. Ferns.

- Polypodium Californicum, Kaulf. G c
 Gymnogramme triangularis, Kaulf. Gold fern. G h
 var. viscosa, Eaton. Silver fern. G
 Notholaena Californica, Eaton. G
 Newberryi, Eaton. Cotton fern. G h
 Parryi, Eaton. Parry's fern. G d
 Cheilanthes Californica, Mett. Lace f. G h
 *viscida, Davenport. N d
 Cooperæ, Eaton. San Bernardino. D d
 *Parishii, Davenport. N m
 *fibrillosa, Davenport ined. N m
 myriophylla, Desv. Fendler's f. G m
 Clevelandi, Eaton. Cleveland's f. G h
 Pellæa andromedæfolia, Fee. Wire f. G
 Ornithopus, Hook. Tea fern. G
 *Wrightiana, Hook. N? m
 Pteris aquilina, L. Brake. G m
 Adiantum emarginatum, Hook. G c h
 Capillus-Veneris, L. Venus-hair. N m
 *pedatum, L. N m
 Woodwardia radicans, Smith. G m
 Asplenium *Filix-femina, Bernh. N m
 Trichomanes, L., var. incisum, Moore. Feather fern. F h
 Aspidium argutum, Eaton. D m
 munitum, Kaulf. G h
 Cystopteris fragilis, Bern. Bladder f. D m
 Woodsia sp. indet. L m

Selaginellæ.

- Selaginella rupestris, Spring. G
 *lepidophylla, Spring. L h
 Isoetes sp. indet. S c

Marsiliaceæ.

- Marsilia vestita, H. & G. D c m
 Pilularia Americana, Al. Br. D c

Salviniaceæ.

- Azolla Caroliniana, Willd.

Musci. Mosses.

These have been sparingly collected.

Sphagnaceæ.

Several species.

Characeæ.

- Chara fœtida, Al. Br. G

Hepaticææ.

Several species.

Lichenes. Lichens.

- Roccella tinctoria, DC.
 leucophæa, Tuck.
 Ramalina ceruchis, Ach.
 reticulata, Noehd. Lace lichen.
 Menziesii, Tuck.
 crinita, Tuck.
 Evernia vulpina, L. Golden lichen.
 prunastri, L.
 Usnea barbata, L., varieties.
 jubata, Fr.
 ochroleuca, Fr.
 Theloschistes chrysophthalmus, L.
 parietinus, L.
 Physcia erinacea, Ach.
 olivacea, Ach.

- Parmelia conspersa, Ehrh.
 Heppia Despreauxii, Mont.
 Placodium bolacinum, Tuck.
 cinnabarrinum, Ach.
 aurantiacum, Lightf.
 cerinum, Hedw.
 ferrugineum, Huds.
 luteo-minimum, Tuck.

Lecanora muralis, Sch.

- cenisia, Ach.
 subfusca, L.
 atra, Huds.
 Pacifica, Tuck.
 cinerea, L.

Rinodina radiata, Tuck.

- bolodes, Tuck.
 Pertusaria flavicunda, Tuck.

Urceolaria scruposa, Smf.**Stereocaulon albicans, Nyl.****Cladonia fimbriata, Fr.****pyxidata, Fr.****Lecidea cruciaria, Tuck.****Buellia sidalea, Tuck.****myriocarpa, DC.****Stylographa parallela, Nyl.****Chiodecton ephærotum, Tuck.****Arthonia epigina, Tuck.****Acolium Bolanderi, Tuck.****Endocarpon pusillus, Hedw.****Fungi.**

No complete collection ever made.

Algæ. Sea-mosses.

SPECIES COLLECTED AT SAN DIEGO BY
 DANIEL CLEVELAND.

Ahnfeltia gigartinoides, Ag.**plicata, Fr.****Amphiroa cretacea.****orbigniana, Harv.****Arthrocladia —?****Asperococcus sinuosus, Bory.****Bryopsis plumosa, Lmx.****Callithamnion Americanum, Harv.****dasyoides, Ag.****heteromorphum, J. Ag.****LeJolisea, Farlow.****scopulorum.****Callophyllis centrocarpa.****gracillarioides, Farlow.****laciniata, Kutz.****obtusifolia, Ag.****variegata, Kutz.****Chaetomorpha ærea, Dillw.****clavata.****Chondria atropurpurea, Harv.****Chondrus affinis, Harv.****canaliculatus, Ag.****Chrysemenia obovata.****Cladophora Ecklonii.****membranacea, Ag.****Corallina officinalis, L.****squamata, Ellis & Sol.****Codium tomentosum, Stack.****Cordylecladia conferta, Mont.****Cruoria purpurea, Crn.****Cryptonemia crenulata, Ag.****dichotoma, J. Ag.****obovata, Ag.****Ceramium rubrum, Ag.**

- Dasya* Helenæ, Farlow.
 subsecunda, Suhr.
Delessiria quercifolia, Bory.
Desmarestia ligulata, Lmx.
 " var. herbacea.
Dictyota Kunthii, Ag.
Ectocarpus crinitus, Harv.
 fasciculatus, Ag.
 granulosus, Ag.
 siliculosus, Lyng.
 virescens, Thurst.
Eisenia arborea, Aresch.
Egregia Menziesii, Aresch.
Endocladia muricata, J. Ag.
Entromorpha compressa, Grev.
 intestinalis, Lmx.
Farlowia compressa, J. Ag.
Fucus fastigiatus, Ag.
 vesiculosus, L.
Gelidium carneum, Lmx.
 cartilagineum, Grev.
 Coulteri, Harv.
 crinale, Ag.
Gigartina canaliculata, Harv.
 mammillosa, Ag.
 microphylla, Harv.
 var. horrida, Farlow.
 radula, Ag.
 spinosa, Harv.
 pistillata, Ag.
Gracillaria confervoides, Grev.
 multipartita, Ag.
Gymnogongrus leptophyllus, Ag.
 linearis, Ag.
Grateloupia Cutleriae, Kutz.
Halidrys osmundacea, Harv.
Hypnea divaricata, Grev.
 musciiformis, Lmx.
Iridæa minor, Bory.
Jania rubens, Lmx.
Leathesia tuberiformis, S. F. Gray.
Lithothamnion polymorphum, Aresch.
Lithothrix aspergillum, J. E. Gray.
Lomentaria ovalis, Ag., v. Coulteri, Harv.
Laurencia cervicornis, Harv.
 pinnatifida, Lmx.
 virgata, J. Ag.
Macrocystis pyrifera, Ag.
Melobesia amplexifrons, Harv.
 Le Normandi, Aresch.
 membranacea, Lmx.
Microcladia Coulteri, Harv.
 Californica, Farlow.
Nereocystis Lutkeana, Post & Rupr.
Nitophyllum Andersonii, Ag.
 Ruprechtianum, Ag.
 violaceum, Ag.
Palmella crassa, Kg.
Petrospongium Berkeleyi, Nally.
Peyssonnellia atropurpurea, Crn.
 Dubyi, Crn.
 squamaria, Dec.
Phyllophora Clevelandii, Farlow.
Pikea Californica, Harv.
 Clevelandii, Farlow.
Plocamium violaceum, Farlow.
 coccineum, Lyng.
 var. Californicum.
 var. flexuosum.
 var. sinuosum.
Porphyra vulgaris, Ag.
Prionitis Andersonii, Eaton.
 Clevelandii, Farlow.
 lanceolata, Harv.
Pterygophora Californica, Rupr.
Ptilota densa, Ag.
 hypnoides, Harv.
Polysiphonia Baileyi, Ag.
 bipinnata, Post & Rupr.
 Californica, Harv.
 Clevelandii, Farlow.
 dictyurus, J. Ag.
 pennata, Ag.
 parasitica, Grev.
 var. dendroidea, Ag.
 senticulosa, Harv.
 urceolata, Grev.
 verticillata, Harv.
 villum, Ag.
Ralfsia verrucosa, Aresch.
Rhodymenia corallina, Grev.
 flabellifolia, (Bory) Ag.
 palmata, Grev.
Rhabdonia Coulteri, Harv.
Rhadomela Larix, Ag.
 subfusca, Ag.
Riccardia Montagnei, Derb. & Sol., var.
 gigantea, Farlow.
Sargassum Agardhianum, Farlow.
 heterocystum, Ag.
Schizymenia coccinea, Harv.
Scinaria furcellata, Bivona, var. un-
 dulata, Farlow.
Scytosiphon lomentarius, Ag.
Spermothamnium roseum, Aresch.
Sphacelaria cirrhosa, Ag.
 fusca, Ag.
Spyridia filamentosa, Harv.
Stenogramme interrupta, Mont.
Tanioma Clevelandii, Farlow.
Ulva lactuca, L.
 latissima, Ag.
 linza, Auct.
Zonaria flava, Ag.
 Tournefortii, Lmx.

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